ELECTRON-MUSIC
Wilcek & Gaul
Musikinstrumente
4953 Petershagen 8 (Döhren)
Ruf 0 57 05 / 343

ELKA

ELKARHAPSODY 610

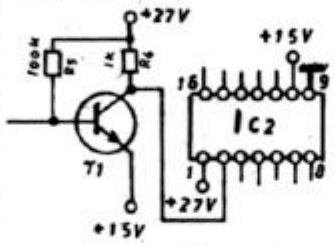
schematic diagrams

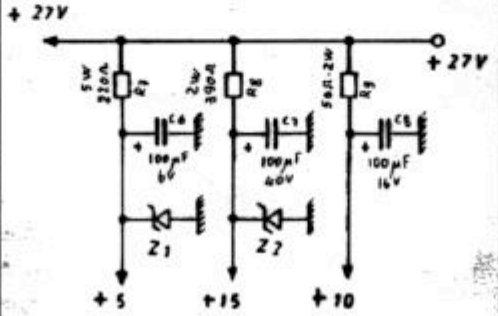
ELKA

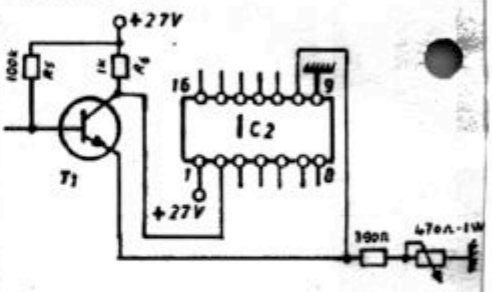
ERRATA CORRIGE

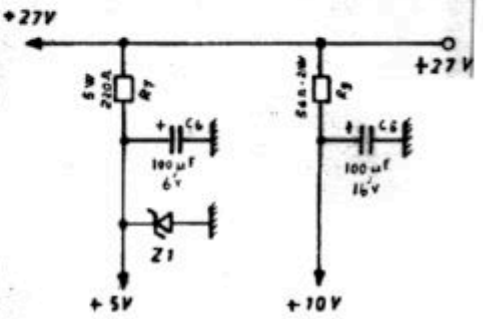
Model
Elkarhapsody 610

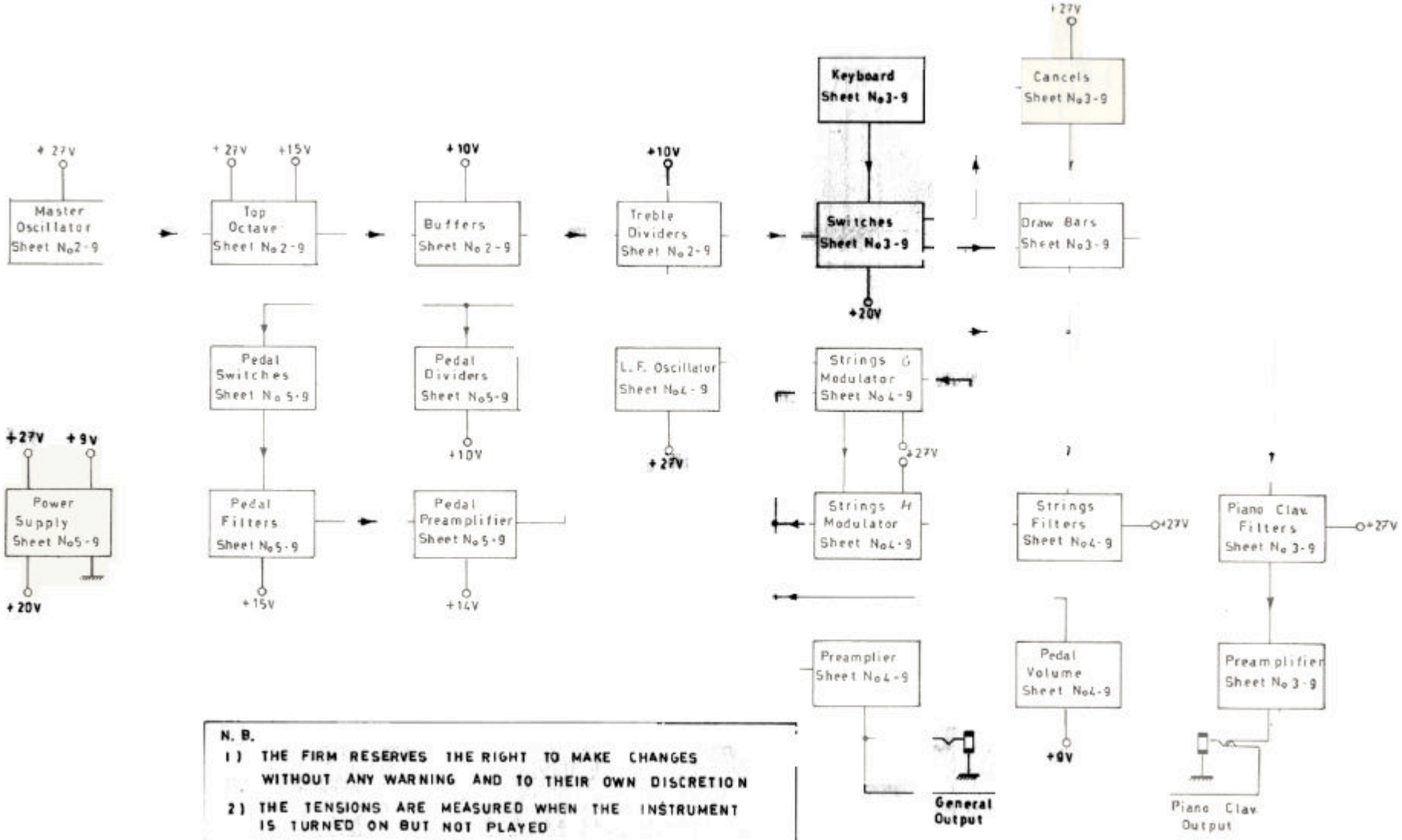
Sheet N°	Date	Printed Circuit	MODIFICATIONS	
			Before	Now
4 - 9	6 - 4 - 77	M000642	R11 = 10K	R11 = 1K
2 - 9	14 - 4 - 77	M000641		









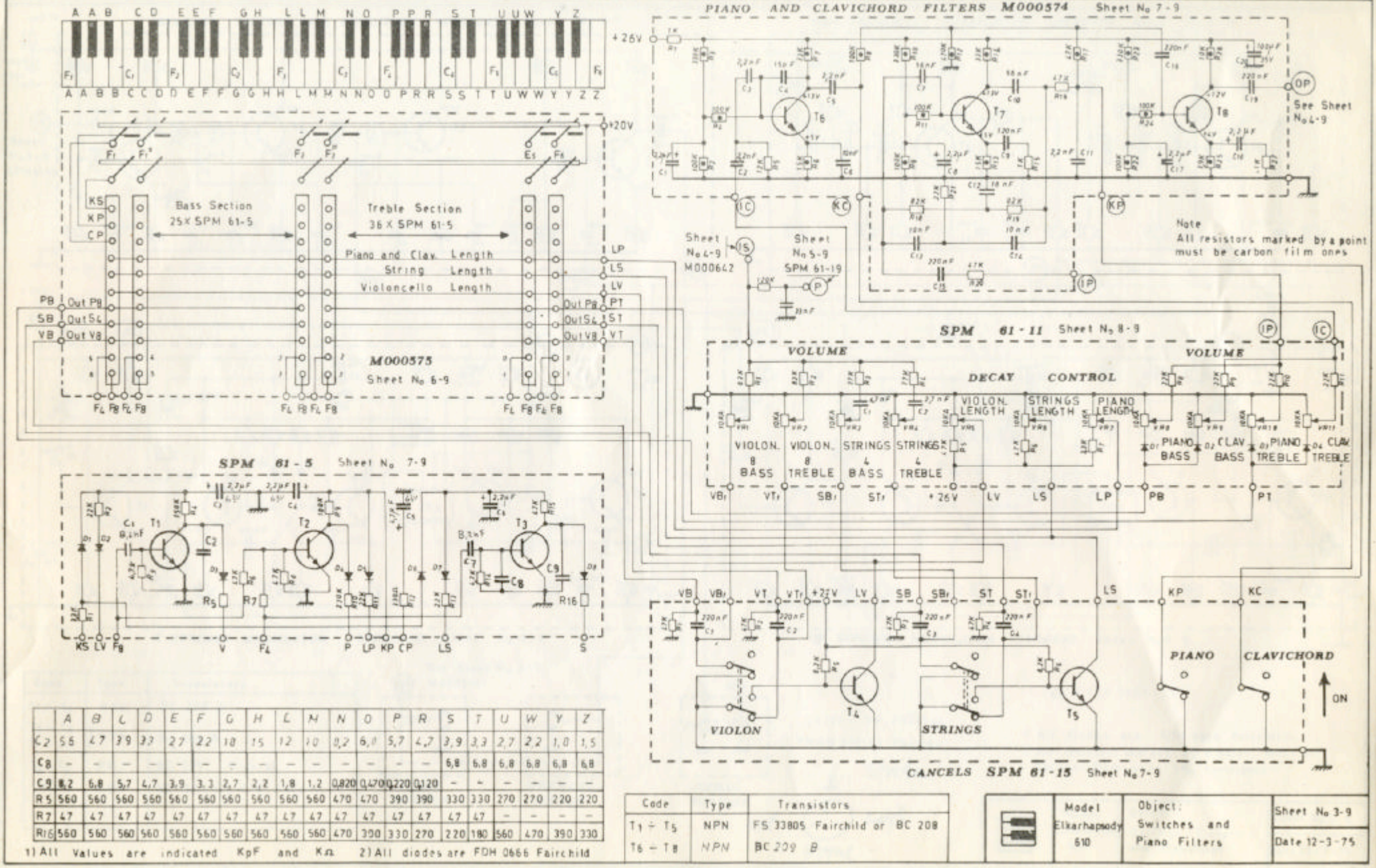


N. B.

1) THE FIRM RESERVES THE RIGHT TO MAKE CHANGES WITHOUT ANY WARNING AND TO THEIR OWN DISCRETION

2) THE TENSIONS ARE MEASURED WHEN THE INSTRUMENT IS TURNED ON BUT NOT PLAYED

Designed by				
Drawn by	Checked by	Model Elkarhapsody 610	Object: Block Diagram	Sheet No1-9
				Date 24-3-76

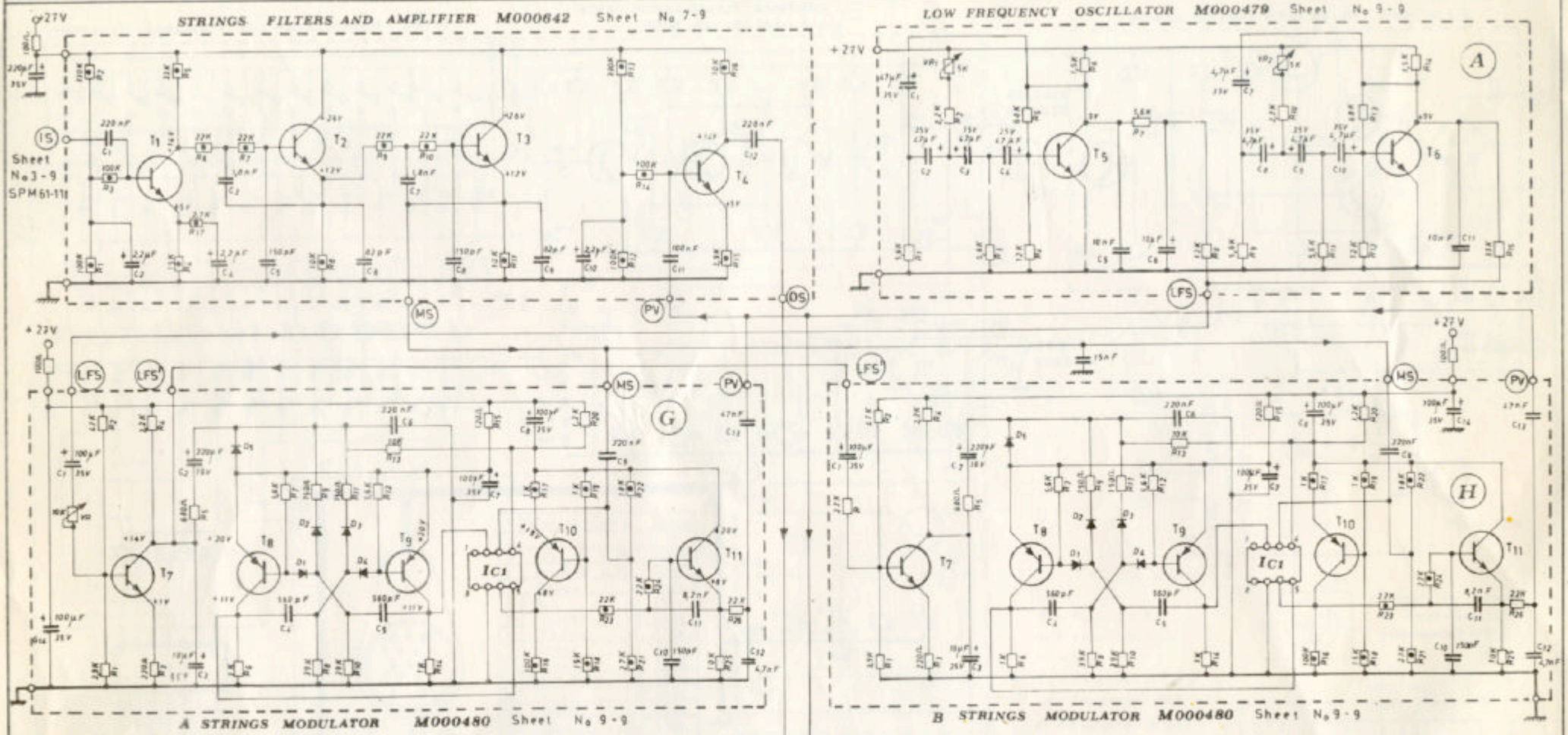


	A	B	C	D	E	F	G	H	L	M	N	O	P	R	S	T	U	W	Y	Z
C2	56	47	39	33	27	22	18	15	12	10	8,2	6,8	5,7	4,7	3,9	3,3	2,7	2,2	1,8	1,5
C8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	6,8	6,8	6,8	6,8	6,8	6,8
C9	8,2	6,8	5,7	4,7	3,9	3,3	2,7	2,2	1,8	1,2	0,820	0,470	0,220	0,120	–	–	–	–	–	–
R5	560	560	560	560	560	560	560	560	560	560	470	470	390	390	330	330	270	270	220	220
R7	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	–	–	–	–
R16	560	560	560	560	560	560	560	560	560	560	470	390	330	270	220	180	560	470	390	330

1) All Values are indicated KpF and Kn 2) All diodes are FDH 0666 Fairchild

Code	Type	Transistors
T1 ÷ T5	NPN	FS 33805 Fairchild or BC 208
T6 ÷ T8	NPN	BC 209 B

Model	Object:	Sheet No 3-9
Elkarhapsody 610	Switches and Piano Filters	Date 12-3-75

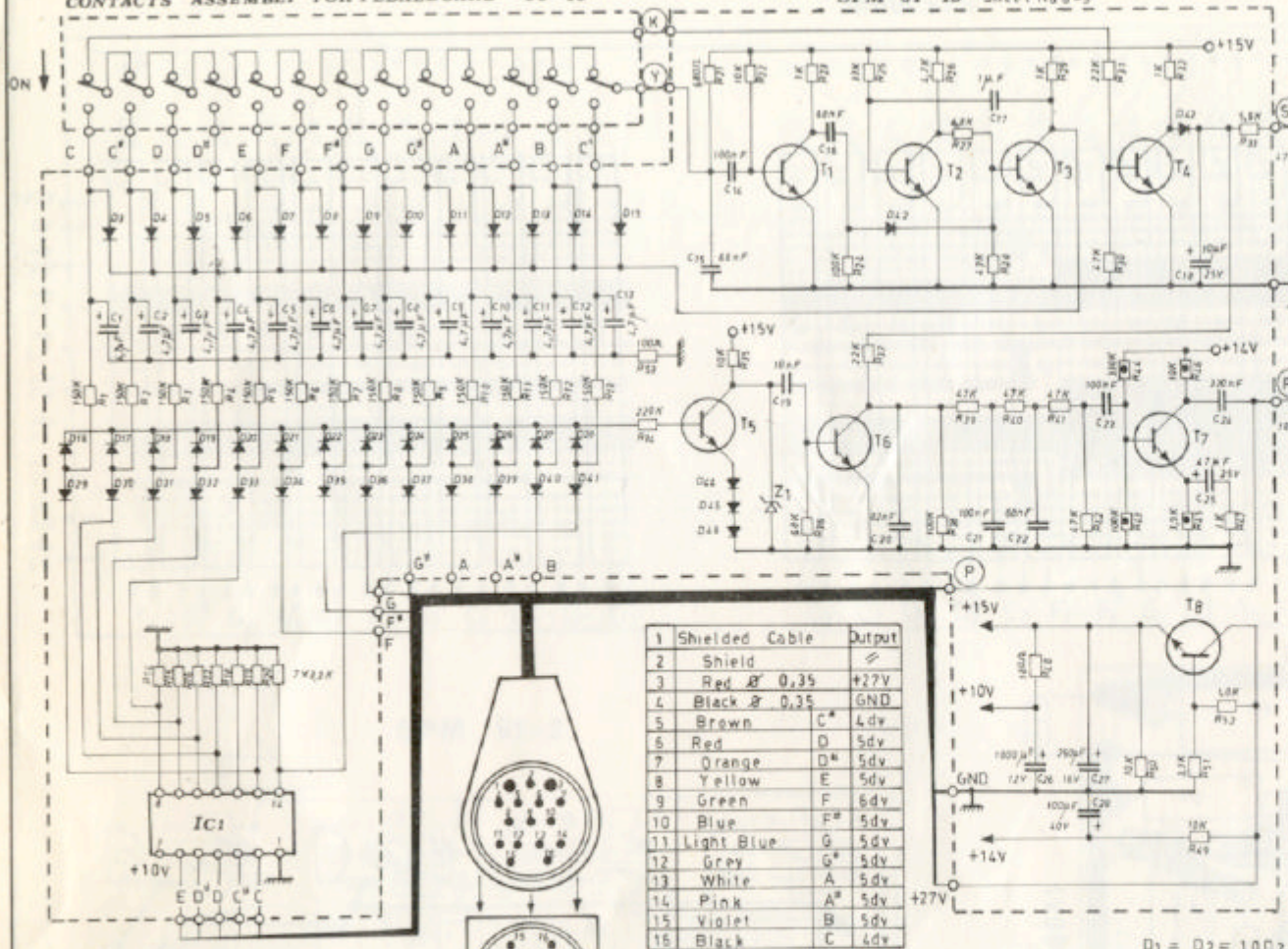


Code	Type	Transistors
T1 ÷ T4	NPN	BC 209 B
T5 - T6 T7 - T11	NPN	BC 209 B
T8 - T9	PNP	BC 205 Mistral
T10	PNP	BC 154 BC 415 Fairchild

	Model	Object:	Sheet No 4-9
	Elkarhapsody 610	Strings Filters and Modulator	Date 23-3-76

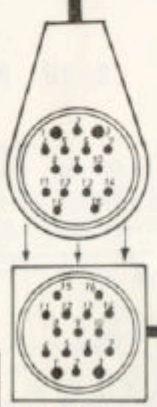
FOOT PEDALBOARD CONTROL
SPM 61 - 19 Sheet No 8-9

CONTACTS ASSEMBLY FOR PEDALBOARD 99 - 19



IC1 = SAY 110 ITT

Code	Type	Transistors
$T_1 \div T_6$	NPN	FS 33805 Fairchild or BC 208 - 108
T_7	NPN	OA 09 Motorola
$T_8 \div T_{11}$	NPN	BC 286 SGS - TIP 29 A
T12	NPN	2N 3055 Philips Motorola Ates



Socket for Pedalboard

1	Shielded Cable		Output
2	Shield		⏚
3	Red Ø 0,35		+27V
4	Black Ø 0,35		GND
5	Brown	C#	4dv
6	Red	D	5dv
7	Orange	D#	5dv
8	Yellow	E	5dv
9	Green	F	6dv
10	Blue	F#	5dv
11	Light Blue	G	5dv
12	Grey	G#	5dv
13	White	A	5dv
14	Pink	A#	5dv
15	Violet	B	5dv
16	Black	C	4dv

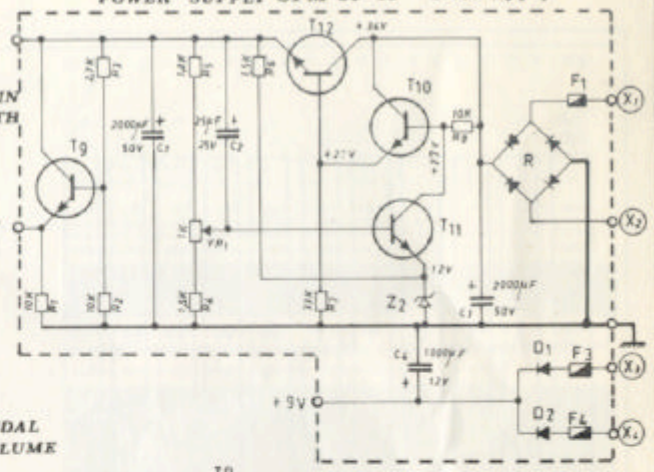
1) Pedal Output (To (P) SPM 61-11 Sheet No 3-9)

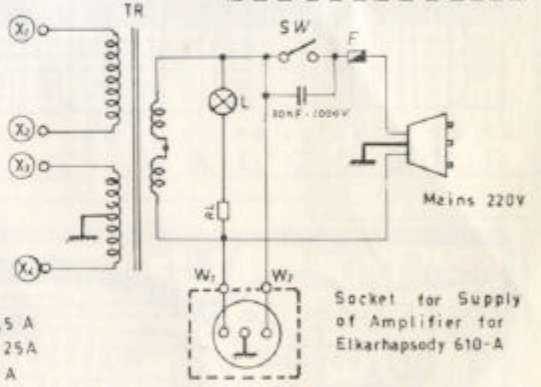
3) +27V (SPM 61-13)

4) GND (SPM 61-13)

5÷16) Frequencies Input (Dividers Sheet No 2 - 9)

POWER SUPPLY SPM 61 - 13 Sheet No 9-9





F = Fuse 0,5 A

F1 = Fuse 1,25A

F2 = Fuse 1 A

F3=F4 = Fuse 125 mA

TR = Trasformer 063

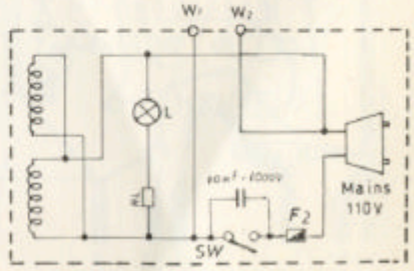
R = Rectifier W 02

D1 = D2 = 100 2 = 1N 4000 3

Z1 = TZ 109 = 1N 4739 1R = 1N 4161 B = ZY 9,1 ITT BZX 61 C 91 Britelec

Z2 = 1N 4163 B = TZ 111 = PL 117

SW + L = Single Pole Switch and Pilot Light

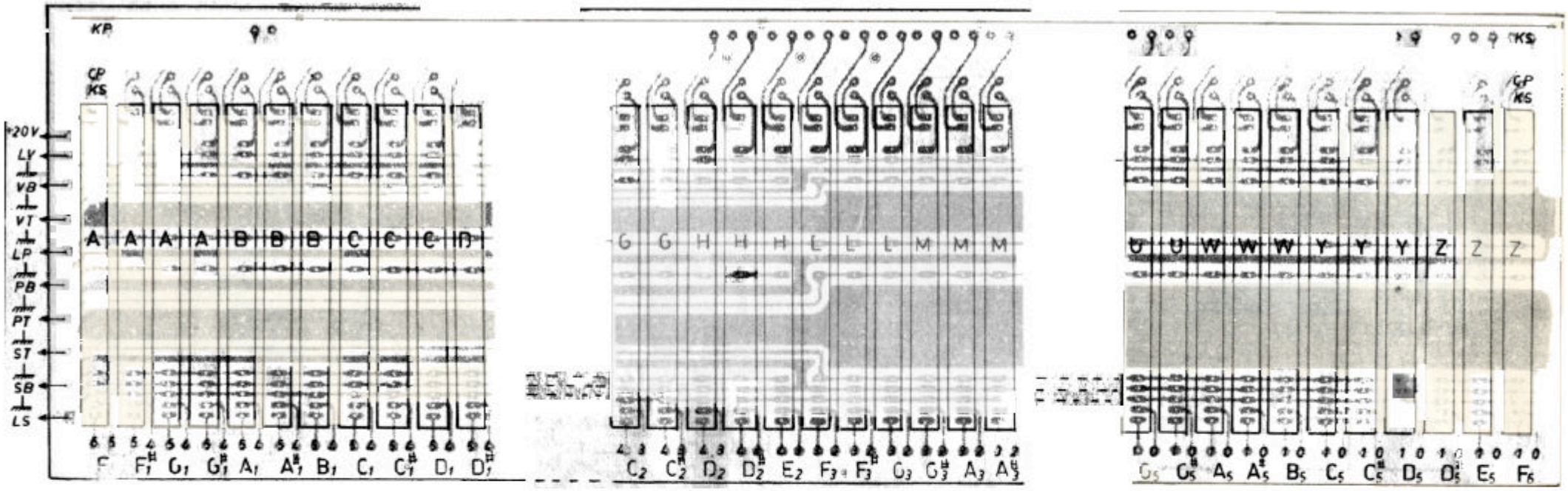


All diodes are FDH 0666 Fairchild or D 407 Texas or BA 181 Texas

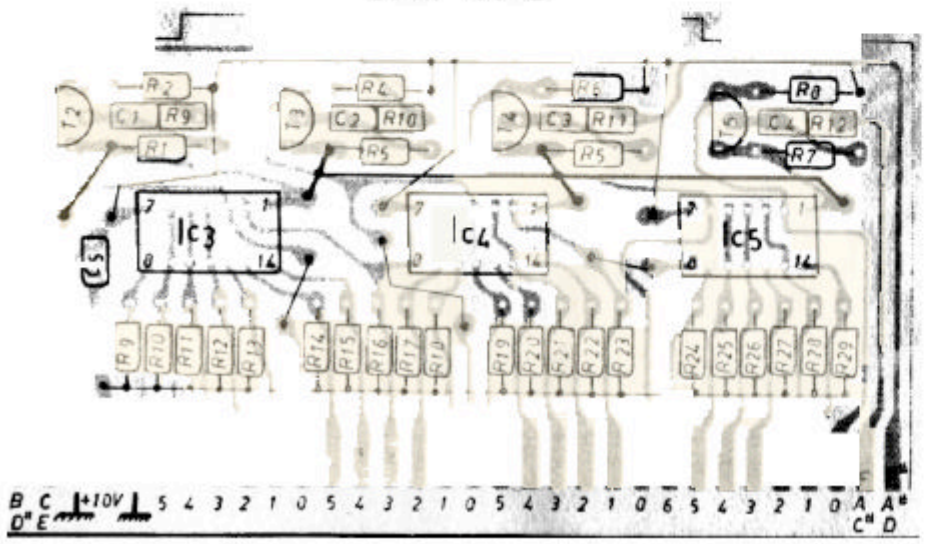
Note: All resistors marked by a point • must be Carbon film

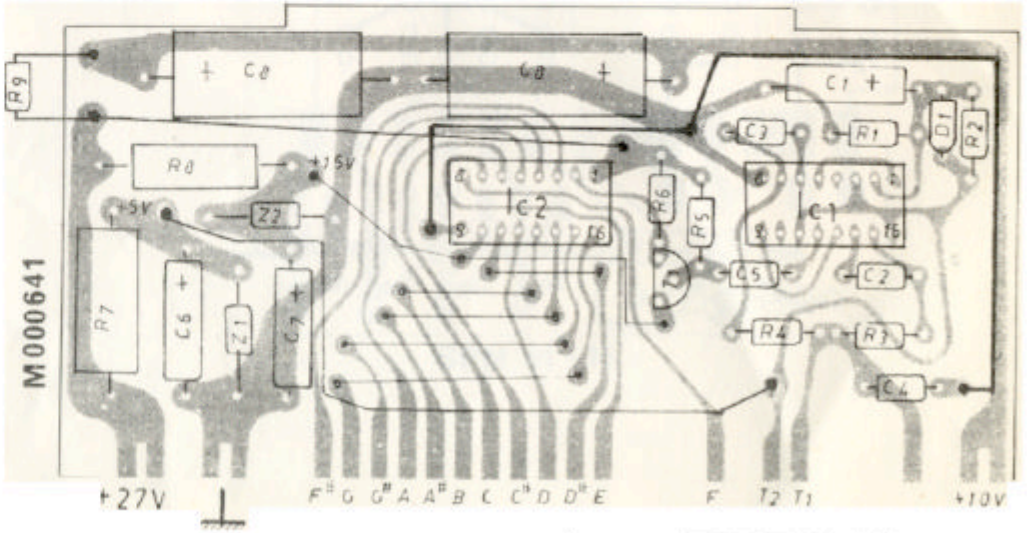
	Model	Object:	Sheet No 5 - 9
	Elkarhapsody 610	Bass Foot Pedalboard and Power Supply	Date 24 - 3 - 76

M000575


KP
KS
+20V
LV
VB
VT
LP
PB
PT
ST
SB
LS
A A A A B B B C C C D
F F# G G# A A# B C C# D D#
G G H H H L L L M M M
C2 C#2 D2 D#2 E2 F3 F#3 G3 G#3 A3 A#3
U U W W W Y Y Y Z Z Z
G#5 A5 A#5 B5 C5 C#5 D5 D#5 E5 F6

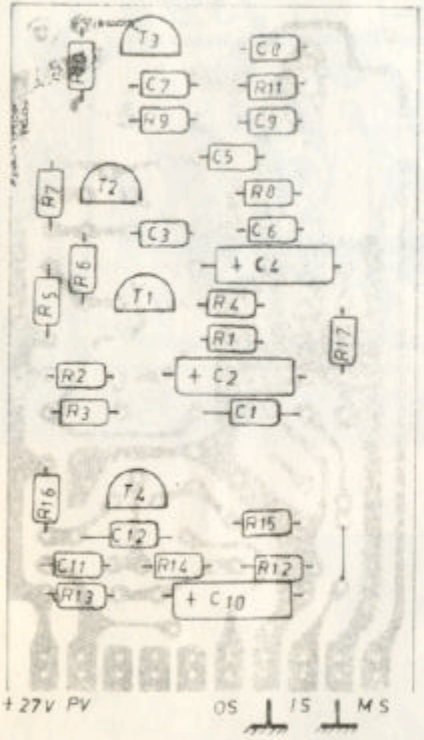
SPM 61-2



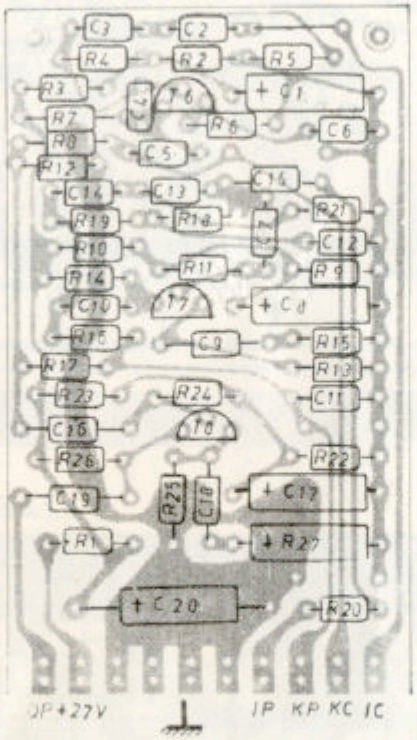


Model Elkurhapsody 610	Object Assembly of Printed Circuit	Sheet No 6-9
		Date 26-3-76

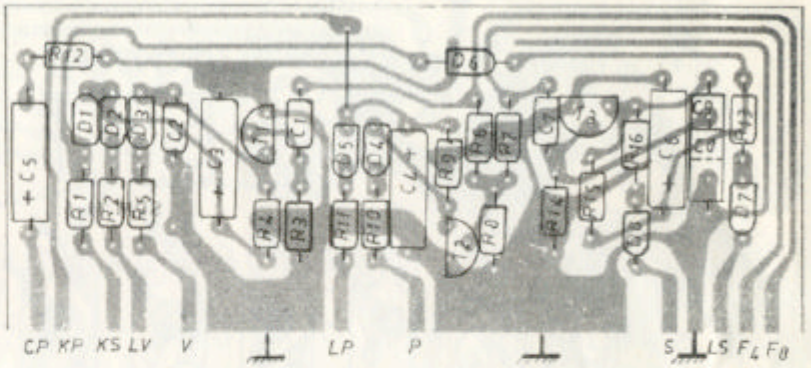
M000642

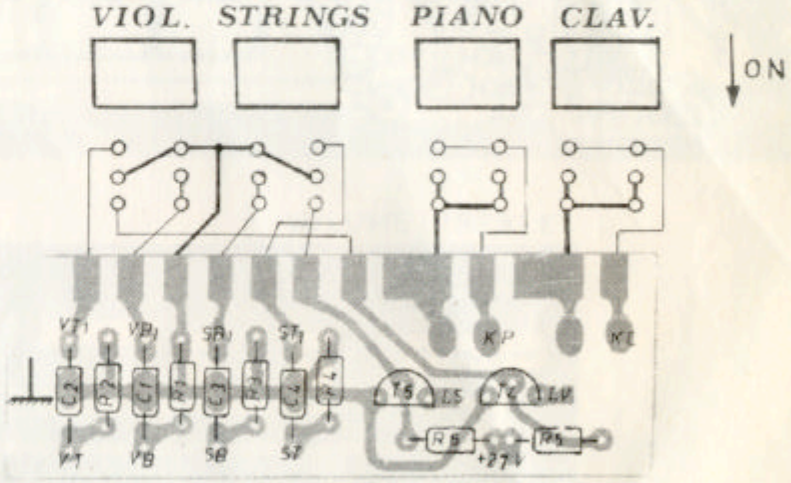


M000574



SPM 61-5

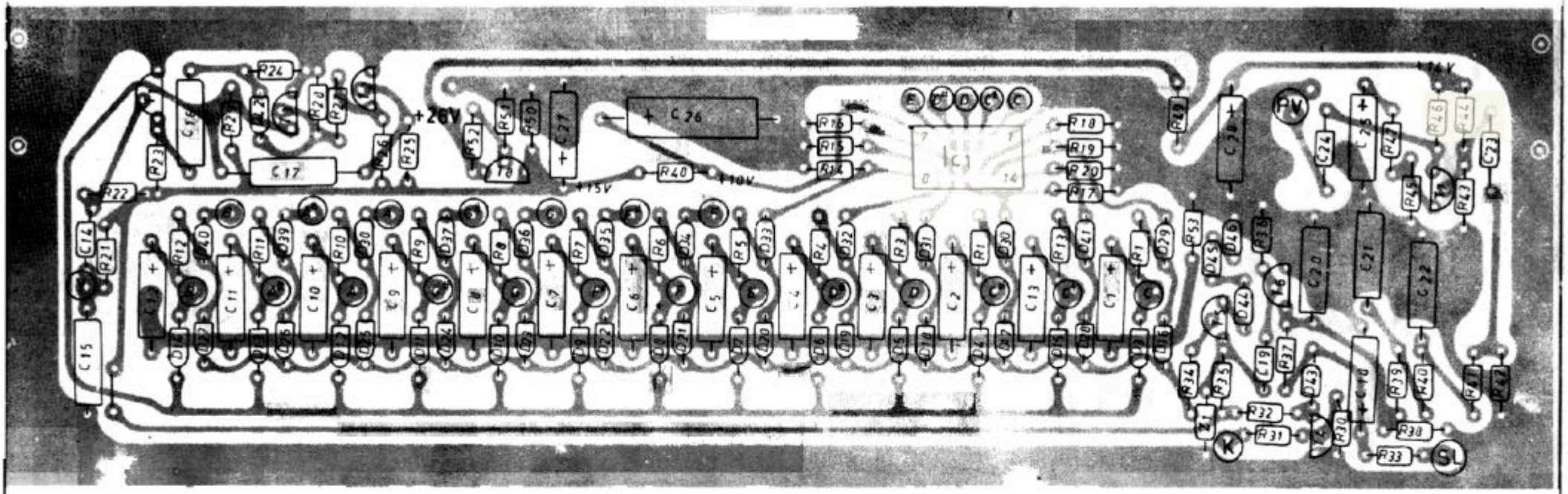




SPM 61 - 15

	Model Elkarhapsody 610	Object Assembly of Printed Circuit	Sheet No 7-9
			Date 25-3-76

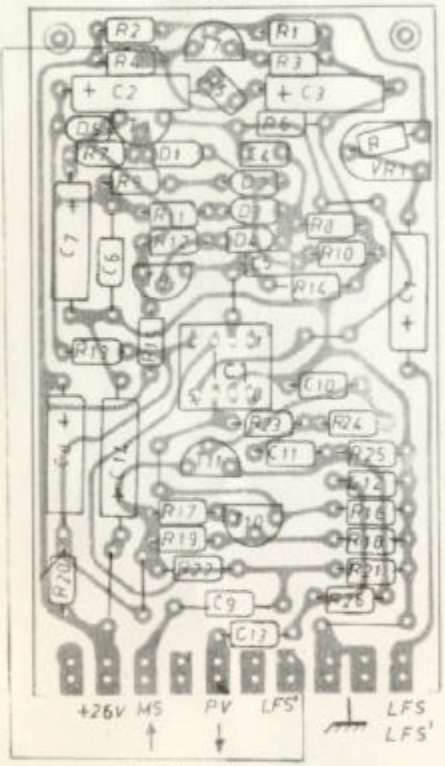
SPM 61-19



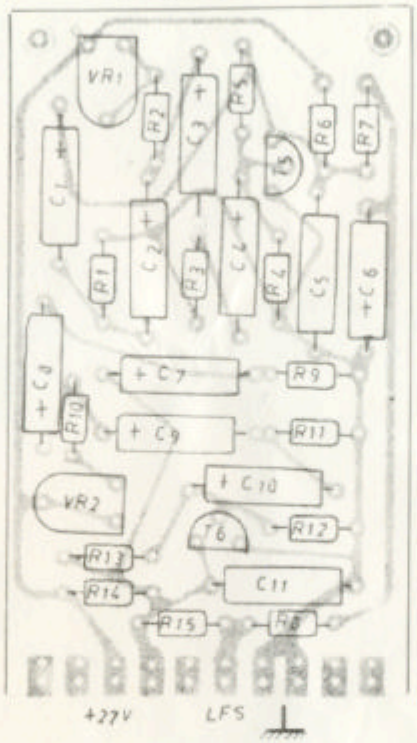
SPM 61-11

	Model Elkarhapsody 610	Object Assembly of Printed Circuit	Sheet No 8-9
			Date 29-3-76

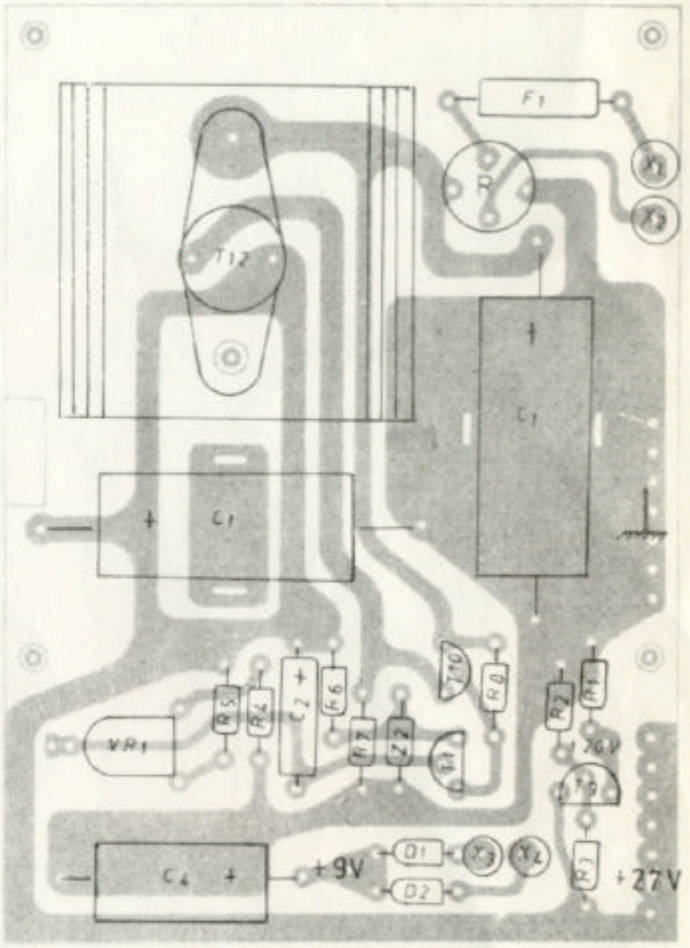
M000480



M000479



SPM 61 - 13



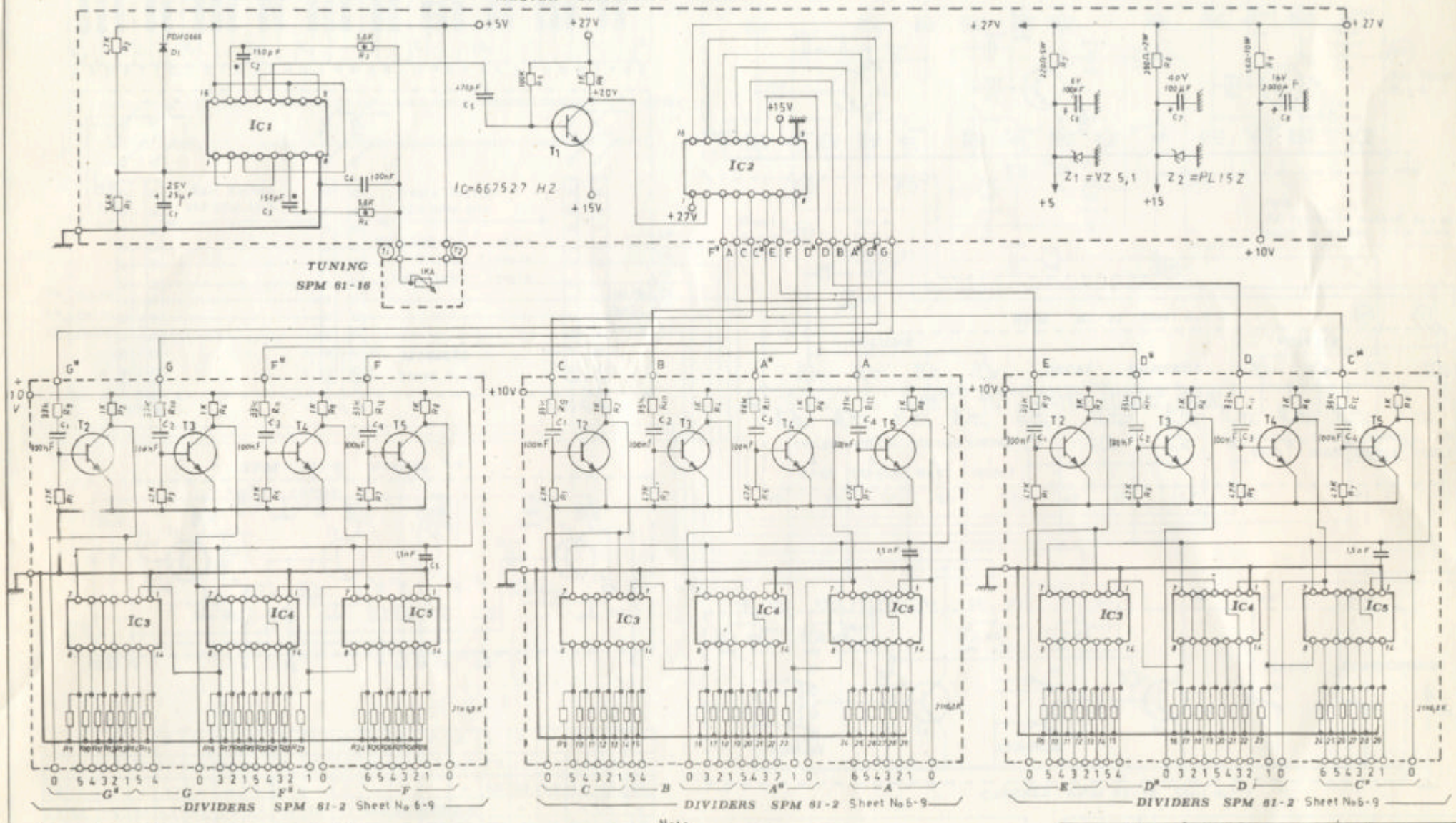
	Model	Object	Sheet No 9 - 9
	Elkarhapsody 610	Assembly of Printed Circuit	Date 29-3-76

ELECTRON-MUSIC
Wilcek & Gaul
Musikinstrumente
4793 Petershagen 8 (Döhren)
Ruf 0 57 05 / 343

Manufactured by ELKA
PO box 1
Castelfidardo Italy

ELECTRON-MUSIC
Wilcek & Gaul oHG

MASTER OSCILLATOR M000641 Sheet No 6-9



Code	Type	Transistors
T1	NPN	BC 209 Fairchild etc....
T2÷T5	NPN	FS 3385 Fairchild or BC 208 Fairchild etc...

IC1 = SN 74221 Texas
IC2 = AY 0212 G.I.E.
IC3 = IC5 = SAY 110 ITT

Note
1) All resistors marked by a point • must be metal film 2% tollerance
2) All capacitors marked by a point • are polycarbonate 2% tollerance

	Model	Object	Sheet No 2-9
	Elkarhapsody 610	Master Oscillator and Dividers	Date 10-3-76